

Claims

5 1. A fresh concrete, containing cement and aggregate, water and admixtures with superplasticizer C-3, hydrophobing agent and Lignopan B having the molecular weight of 10-50 kJ, characterized by antifoam as hydrophobing agent (139-282) and fixing salt and/or ammonium thiocyanate and/or sodium and/or sodium sulfate and sodium carbonate having the following ratio of components (parts by mass):

|    |  |           |
|----|--|-----------|
| 10 | superplasticizer C-3   | 0-40      |
|    | the hydrophobing agent indicated                             | 0.02-0.06 |
|    | the Lignopan B indicated                                     | 10-20     |
|    | fixing salt and/or ammonium thiocyanate and/or sodium and/or |           |
| 15 | sodium sulfate   | 40-55     |
|    | sodium carbonate   | 1-2,      |

having a content of the admixture of 0.6-1.5 parts by mass of the cement mass.

20 2. The fresh concrete as claimed in claim 1, characterized in that it contains the components indicated in the following ratio:

|    |           |                             |
|----|-----------|-----------------------------|
|    | cement    | 300-500 kg/m <sup>3</sup>   |
|    | aggregate | 1590-2030 kg/m <sup>3</sup> |
| 25 | water     | 105-200 kg/m <sup>3</sup>   |

3. The fresh concrete as claimed in claim 1 or 2, characterized in that it contains coarse and/or fine aggregate.

30 4. The fresh concrete as claimed in claim 3, characterized by gravel and/or construction sand as coarse aggregate.

5. The fresh concrete as claimed in claim 3 or 4, characterized by coarse aggregate of particle size 5-20 or 5-40 mm.

35 6. The fresh concrete as claimed in any of claims 3 to 5, characterized by sand having the size of not more than 5 mm as fine aggregate.

7. The fresh concrete as claimed in any of claims 3 to 6, characterized by at least one component of the following group as fine aggregate: quartz sand, eruptive rock sand, metamorphic sand, expanded clay sand, iron slag sand.

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8. The fresh concrete as claimed in any of claims 3 to 7, characterized by at least one component of the following group as coarse aggregate: eruptive rock gravel, metamorphic gravel, sedimentary rock gravel, iron slag gravel, crushed expanded clay and crushed expanded slag.

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9. An admixture for fresh concrete comprising superplasticizer C-3 and hydrophobing agent Lignopan B having the molecular weight of 10-50 kJ, characterized by antifoam as hydrophobing agent (139-282) and fixing salt and/or ammonium thiocyanate and/or sodium and/or sodium sulfate and sodium carbonate having the following ratio of components (parts by mass):

|   |           |
|---|-----------|
| superplasticizer  | 0-40      |
| the hydrophobing agent indicated  | 0.02-0.06 |
| the Lignopan B indicated  | 10-20     |
| fixing salt and/or ammonium thiocyanate and/or sodium and/or sodium sulfate | 40-55     |
| sodium carbonate  | 1-2       |